

California Content Standards

This lecture, “Diet and Cancer: Are Cooked Meats Involved?” supports the following standards:

Biology:

- Students should understand that genes are a set of instructions, encoded in the DNA sequence of each organism that specify the sequence of amino acids in proteins characteristic of that organism.
- Students should have an understanding of the coordinated structures and functions of organ systems that result in the relatively stable internal environment of the human body despite changes in the outside environment.
- Students should have an understanding of the variety of mechanisms organisms have to combat disease.

Chemistry:

- Students should have an understanding of the bonding characteristics of carbon, which leads to many different molecules with varied sizes, shapes and chemical properties, providing the biochemical basis of life.
- Students should have an understanding of the biological, chemical and physical properties of matter resulting from the ability of atoms to form bonds based on electrostatic forces between electrons and protons, and between atoms and molecules.

Investigation and Experimentation:

- Scientific progress is made by asking meaningful questions and conducting careful investigations. As a basis for understanding his concept, and to address the content of the other four strands, students should develop their own questions and perform investigations.